

Mouse Anti-Milk Fat Globule 1/HMFG [SPM291]: MC0487, MC0487RTU7

Intended Use: For Research Use Only

Description: Recognizes a protein of 40-45kDa, identified as human milk fat globule membrane protein (HMFG). HMFG is present on normal human breast epithelial cells and cell lines derived from breast carcinomas, as well as to the outer surface of the human milk fat globule. HMFG is considered as a differentiation marker. It is useful as specific breast epithelial marker and can also provide a tool to study the role of the cell surface in normal and neoplastic mammary development.

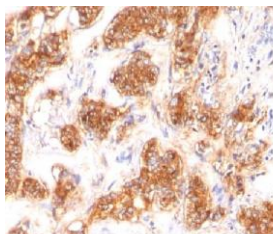
Specifications:

Clone: SPM291
Source: Mouse
Isotype: IgG1k
Reactivity: Human
Localization: Membrane, cytoplasm
Formulation: Purified antibody in PBS pH7.4, containing BSA and $\leq 0.09\%$ sodium azide (NaN₃).
Storage: Store at 2°- 8°C
Applications: IHC, Flow Cyt., ICC/IF, WB
Package:

Description	Catalog No.	Size
Milk Fat Globule 1/HMFG Concentrated	MC0487	1 ml
Milk Fat Globule 1/HMFG Prediluted	MC0487RTU7	7 ml

IHC Procedure*:

Positive Control Tissue: Normal breast or breast carcinoma
Concentrated Dilution: 50-200
Pretreatment: Tris pH9.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C
Incubation Time and Temp: 30-60 minutes @ RT
Detection: Refer to the detection system manual
* Result should be confirmed by an established diagnostic procedure.



FFPE human breast carcinoma stained with anti-HMFG using DAB

References:

1. Prognostic significance of the immunohistochemical reaction to human milk fat globule antibodies in node-negative and node-positive breast cancer. Sterns EE et al. Breast Cancer Res Treat, 21(3):193-9, 1992.
2. A Mr 46,000 human milk fat globule protein that is highly expressed in human breast tumors contains factor VIII-like domains. Larocca D et al. Cancer Res, 51: 4994-4998, 1991.
3. Ultrastructural localization of milk fat globule membrane antigens in human breast carcinomas. Corcoran D and Walker RA. J Pathol, 161(2):161-6, 1990.
4. Surface differentiation antigens of human mammary epithelial cells carried on the human milk fat globule. Ceriani RL et al. Proc Natl Acad Sci USA, 74(2):582-6, 1977.